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KAZAKH REDUCTION AND METALLURGICAL PLANTS

Ye. I. Shlifehtoyn

During the new Five-Year Plan, Kazakhatan is proceeding toward the creation of an important branch of heavy industry, namely, ferrous metallurgy.

Many branches of the ore-mining industry undervent intensive development in Kasakheten during World War II by supplying the metallurgical industry with each components of high-grade steels and hard and superhard alloys as manganaso, chromium, molybdenum, tungsten, varadium, and others.

The extensive deposite in South Kempirsay (Aktyubirsk Oblast) of high-grade chromites (50-60 percent chromic oxide), used for the production of ferrochrone and in the chemical industry, were developed before the war, making Mesakheten en important world center for chromites and a leader in the Soviet chromite industry. Production of Yuzhmyy (South) Kempirsay chromites in the area served by the Kandagron-Orsk rail line amounted to 87 percent of Soviet production in 1944.

During the war, the first manganese mines were established in the deport areas of central Kazakhstan at Drhezdy and Nayzatas. A spur rail line commected them with Daherkangan (on the Dubezkangan-Zharyk line). Molybdenum as an associsted mineral of copper one was mined in east Kounrad, and tungsten was mined in north Rown of. The Akoha-Tau tungsten-molybdenum mine in the Balkhach region was explored and is being exploited. Vanadium is now being mined in the northwestern parts of the Mara-Tau Mountain Range, in the vicinity of the sandy Muyun-Kur Desert. A concentration plant for the production of molybdenum concentrates was established at Balkbash.

Kazakh chrozium, mangamese, molybdonum, tungatan, and vonadium were important in supplying the Ural metallurgical plants, which produced corresponding types of metals essential for defense needs.

The first line of the Aktyubinek Ferrochrom. Plant (6 km from Aktyubinek), Reachhatan's first ferrous-matallurgical enterprise, was put into operation in 1945. The plant has a sound source of rew material supply in Yuzhnyy Kampirsey chromitas. The Hek River supplies water to the plant, and Berchogur and Maraganda supply coal. Deposits of fluxes and construction materials border on

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the Sampirear chrome massif; leen chromite and magnetite cros of the area are used in the manufacture of refractory materials.

During the war, the Essakh Metallurgical Reduction Flant was built near Karaganda, and the new city of TemirTau grow up beside it. This plant reprocesses scrap iron from the industrial centers of Kazekhstam and neighboring regions. The first sized was produced there in 1944; the first roiled iron, in 1946. Thus, Essakhstam already manufactures its own steel, roiled iron, and cast iron. Construction of the reduction plant will be completed during the first 2 years of the new Five-Year Flan. In 1950, the plant will furnish the Essakh Republic with 72,000 tons of steel.

The construction of a large plant with a complete cycle of metallurgical production -- bleat furnace, steel foundry, rolled from, and coke -- is being undertaken during the postwar Five-Year Flam.

The Mazakh Metallungical Combine will furnish millions of tons of pig iron and millions of tons of steel annually. The combine will include Chamotta, Dinas, and many other secondary shops and plants. A powerful Tells will provide the combine with steam and power.

Geimoidental with fully providing Kaserhstan economy with pig iron, steel, and various kinds of rolled iron such as rails, sheet iron pipes, and structural iron, opportunity will be created to develop the metal-working and machine-building industries in the Bepublic, thereby permitting a rise in the Emba oil industry (which it will supply with pipe) and now railroad construction.

On the basis of Atsau and Karkaralinek ores, a new metallurgical center is being established in Tendricau, near Euroganda.

The industrial utilization of Eazakhatan's own ores came about as a result of extensive geological prosperting work which was carried out in the post-Pevolutionary period end is being continued during the new Five-Year Flam. An industrial reserve of 100 million tons of iron ore from the Atasu and Barkaralinek group of deposits in called for during the Five-Year Flam.

The establishment of the Temir-Tau complex, as well as that of Dahezkazgan, leads to the most far-reaching shifts in the industrial geography of Kazakhstan, armyly increasing the influstrial significance of the central regions. Formerly, the chief influstrial centers -- Esba, Altay, Alma-Ata, and Chimkent -- were leaded along the outer borders of Kazakhstan.

The new city of Tamir-Tem (formerly Semarkand settlement), having branched off from Earsgands, will become the ferrors-metallurgy center of Mazekhatan.

Temis-Tem is located about 55 km northwest of Karagands.

The climate there is strictly continental. Summer is hot, winter is cold with strong winds. In view of the small smount of rainfall (260-280 mm), only the Bura River continues to flow throughout the entire summer. The source of the Eura is located in the heights of the Karimvalinsk Hountains, where there is more abundant precipitation.

Located in the immediate vicinity of the Enraganda coking-coal basin and on the above of the extensive Somarkand Reservoir, which was present by demning the Eura River and which is transmously important in supplying water to the metallurgical combine, Temi-Tem is also advantageously located in regard to iron and rangamess are supply. From-one decosits are located 250 has to the west and 220 km to the east of Karaganda, which is about one half as for see any Dombess plant from the Erivoy Rog deposits. Managanese are located 250-420 has from Earaganda.

From case of the Atasu group, found on the various alopes of the Manath beights, are located in the Atasu River basin, 40-50 km from the Debesionsgen-Zustyk rail line. Atasu hematites contain 40-60 percent iron, insignificant

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traces (to 0.7 percent) of phosphorus, 0.01 - 0.32 percent sulphur, and up to 3.0-4.0 percent manganese. The fact that these ores do not require concentration is of great economic significance in the conservation of the tater supply of this arid region. The Mara-Dzhal and Bolshoy Kray deposits have been the most widely prospected.

The Karkaralinek group consists of 20-25 deposits. The most widely prospected of these are the Kan'-Tyube-Togay deposits which are located 50 km from the city of Karkaralinek elong both banks of the Eadyr River, which dries up. In the northern feethills of the Karkaralinek Mountains these hematize and magnetite deposits contain iron on an average of 55 percent (Togay I), 45 percent (Togay II), and 60 percent (Kon'-Tyube). The phosphorous content amounts to 0.03--0.05 percent. The sulphur content increases with depth.

In the next few years the Akmolinsk-Pavlodar rail line will pass through this region. It will stimulate the development of the whole Kerkaralinsk mountain region, which is rich not only in iron but also in copper, lead, silver, and timber for building purposes.

The mangement industry, which arose in the Karsakpay region during the war years, depends upon the high-grade manganese deposits at Duberdy and Mayzatas. Besides the deposits at Karsakpay, manganese has also been found in connection with the iron cres of Atasu. The manganese industry will develop also in this region during the new Five-Year Plan.

The Karaganda coal basin also will grow as it receives a new large-scale consumer, the Kazakh Metollurgical Plant. The extensive Saran' coal region 25 km southwest of Karaganda will be developed during the new Five-Year Plant. This coal is even less ash-producing than Karaganda coal.

In addition to the metallurgical plant, a series of enterprises are being built in Temir-Tau. Power generation by the Karaganda GES will be increased fourfold during the Five-Year Plan. This plant, put into operation in 1942, is located at the dam on the Eura River (on the shore of the Samarkand Reservoir).

The new city of metal, chamistry, and power, even at the present time, has a large population and is a large-scale consumer of water. The Samarkand Receivoir will be greatly enlarged by the end of the Five-Year Flam.

Other branches of the ferrous metallurgical industry of Kazakhstan are also being built up. The construction of the next line of the Aktyubinak Ferroalloys Flant is being worked out. Mining of chronites will grow fourfold; by 1950, smelting of ferrochroms will increase by about three odd times as compared with 1945.

Construction of a ferroalloys plant in South Kazakhatan will be undertaken on the basis of enormous reserves of metallurgical ores at Kara-Teu and Dahebagiy (Dahambul Colast), which have been explored during the last 4 years.

The number of scientific personnel of Kazakhatan is also growing. The Kazakh Acedemy of Sciences was opened in 1946 in Alma-Ata. The Acedemy has a large Institute of Geology, which will do much for the investigation of Kazakhatan's mineral resources.

New groups of Kazakh workers were trained in the old metallurgical centers of the country (Alapayevak, Fizhriy Tagil, Chusovoy, Beloretsk, Vyksa, Stalinsk, etc.) during the process of developing ferrous metallurgy, a branch of industry entirely new to Kazakhatan.

The socialist cities of Temir-Teu and Saran', located in the regions of the magnilicent new plants, are being built according to a unified plan. Workers' settlements are making their appearance in the are-mining regions.

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Along with them, kindergartens, nurseries, schools, hospitals, clubs, libraries, theaters, and radio stations are being built on the semidesert steppes of Easakhatan. The natural landscape of Easakhatan's deserts and semideserts is being changed.

Metallurgists in Temir-Tau are moving from adobe barracks into two-story, eight-spartment houses. In the valleys of the Sokur and Karagandinka Rivers, in the region of the smelent landmark of Bay-Tan, where up to this time the tops of an unknown bey was the only eight, the first section of a future coal city, Saran', consisting of two-story houses, has already arisen.

Suburben agriculture (vegetables, potatoes, and milk) is developing near Tenir-Tu and Saran'.

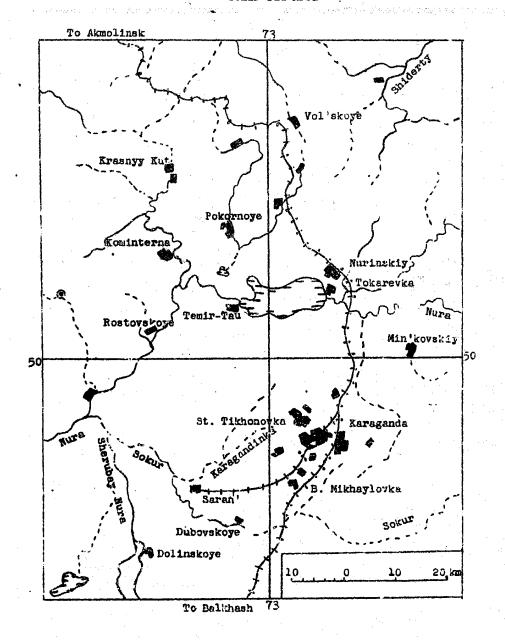
Maps are appended.

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Temir-Tau Area

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